

# Exhibit I



## Certificate of Registration



This Certificate issued under the seal of the Copyright Office in accordance with title 17, United States Code, attests that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.

*Marybeth Peters*

Register of Copyrights, United States of America



Form VA

Part of Work of the Visual Arts

VAu739-070



EFFECTIVE DATE OF REGISTRATION

11 07

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

1

Title of This Work **V**  
New Elementary Schools 1 and 2  
(Southbury Elementary)

Architectural Plans-not yet constructed

NATURE OF THIS WORK **V** (See Instructions)

Architectural Work

Previous or Alternative Title **V**

Alternative Title: New Elementary Schools 1 and 2 (Hunt Club Elementary)

Publication as a Contribution **V** If this work was published as a contribution to a periodical, serial, or collection, give information about the medium or work in which the contribution appeared. Title of Collective Work **V**

N/A

If published in a periodical or serial, give **V** Name **V**

Number **V**

Issue Date **V**

On Page **V**

2

NOTE

Under the law, the "author" of a work made for hire, is generally the employer, not the employee (see instruction 3). For any part of this work that was made for hire, check "Yes" in the space provided, and the employee (or other person for whom the work was prepared) as "Author" of that part, and leave the space for date of birth and death blank.

NAME OF AUTHOR **V**

a Kluber, Skahan & Associates, Inc.

DATES OF BIRTH AND DEATH

Year Born **V**

Year Died **V**

Was this contribution to the work a "work made for hire"? **V**

☐ Yes

☐ No

Author's Nationality or Domicile

Name of Country

USA

OR

Citizen of

USA

OR

Domiciled in

Was This Author's Contribution to this Work

Anonymous? ☐ Yes ☒ No

Pseudonymous? ☐ Yes ☒ No

If the answer to either of these questions is "Yes," see detailed instructions.

Nature of Authorship: Check appropriate box(es). See instructions.

☐ 3-Dimensional sculpture

☐ Map

☐ Technical drawing

☐ 2-Dimensional artwork

☐ Photograph

☐ Text

☐ Reproduction of work of art

☐ Jewelry design

☒ Architectural work

Name of Author **V**

Dates of Birth and Death

Year Born **V**

Year Died **V**

Was this contribution to the work a "work made for hire"? **V**

☐ Yes

☐ No

Author's Nationality or Domicile

Name of Country

OR

Citizen of

Domiciled in

Was This Author's Contribution to this Work

Anonymous? ☐ Yes ☒ No

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☐ 3-Dimensional sculpture

☐ Map

☐ Technical drawing

☐ 2-Dimensional artwork

☐ Photograph

☐ Text

☐ Reproduction of work of art

☐ Jewelry design

☐ Architectural work

3

Year in Which Creation of This Work Was Completed

2006

This information must be given in all cases.

Date and Nation of First Publication of This Particular Work

ONLY if this work has been published.

Month

Day

Year

4

See instructions before completing this space.

COPYRIGHT CLAIMANT(S) Name and address must be given even if the claimant is the same as the author given in space 2. **V**

Kluber, Skahan & Associates, Inc.

901 N. Batavia Avenue, Suite 301

Batavia, IL 60510

Transfer: If the claimant(s) named here in space 4 is (are) different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright. **V**

APPLICATION RECEIVED

11-07 5-17-07

ONE DEPOSIT RECEIVED

11-07

TWO DEPOSITS RECEIVED

FUNDS RECEIVED

MORE ON BACK ▶

• Complete all applicable spaces (numbers 5-9) on the reverse side of this page.  
• See detailed instructions.  
• Sign the form at line 6.

DO NOT WRITE HEREIN

Page 1 of 2 pages



EXAMINED BY SOW FORM VA  
 CHECKED BY \_\_\_\_\_  
☒ CORRESPONDENCE  
☐ Yes  
 FOR COPYRIGHT OFFICE USE ONLY

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

**PREVIOUS REGISTRATION** Has registration for this work, or for an earlier version of this work, already been made in the Copyright Office?

☐ Yes ☒ No If your answer is "Yes," why is another registration being sought? (Check appropriate box.) ☐

☐ This is the first published edition of a work previously registered in unpublished form.

☐ This is the first application submitted by this author as copyright claimant.

☐ This is a changed version of the work, as shown by space 6 on this application.

If your answer is "Yes," give Previous Registration Number ☐

Year of Registration ☐

**DERIVATIVE WORK OR COMPILE** Complete both space 6a and 6b for a derivative work; complete only 6b for a compilation.

6a. Presenting material Identify any presenting work or works that this work is based on or incorporates. ☐

N/A

6b. Material Added to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. ☐

N/A

**DEPOSIT ACCOUNT** If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.

Name ☐

Account Number ☐

N/A

**CORRESPONDENCE** Give name and address to which correspondence about this application should be sent. Name/Address/Apt/Qty/State/Zip ☐

Nicholas A. Grojean

Ancel, Glink, Diamond, Bush, DiCianni & Kraftheiser, PC

140 South Dearborn, Suite 600

Chicago, IL 60603

Area Code and daytime telephone number

(312) 782-7606

Fax number

312/782-0943

E-mail

Nygrojean@ancelglink.com

**CERTIFICATION** I, the undersigned, hereby certify that I am the

check only one ☐ author  
☐ other copyright claimant  
☐ owner of exclusive rights  
☒ authorized agent of Kluber, Skahan & Associates, Inc.

of the work identified in this application and that the statements made by me in this application are true to the best of my knowledge.

Typed or printed name and date ☐ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Nicholas A. Grojean

Date 5/17/07

Handwritten signature (X) ☐

*Nicholas A. Grojean*

Certificate will be mailed in window envelope to this address:

Name <input type="checkbox"/>	Nicholas A. Grojean
Address <input type="checkbox"/>	Ancel, Glink, Diamond, Bush, DiCianni & Kraftheiser, PC
City/State/Zip <input type="checkbox"/>	140 South Dearborn-Suite 600
City/State/Zip <input type="checkbox"/>	Chicago, IL 60603

**NOTES**

Complete all necessary spaces. ☐

Send your application in space 8. ☐

**MAILING INSTRUCTIONS**

1. Application fees ☐

2. Nonreturnable filing fee in check or money order payable to Copyright Office ☐

3. Deposit material ☐

**LIBRARY OF CONGRESS**

Copyright Office

101 Independence Avenue SE

Washington, DC 20540-6000

17 USC 304A: Any person who knowingly makes a false representation of a fact set out in the application for copyright registration provided for by section 405, or in any written statement filed in connection with the application, shall be fined not more than \$2,000.



## Certificate of Registration



**Form CA**  
For Supplementary Registration  
UNITED STATES COPYRIGHT OFFICE



This Certificate issued under the seal of the Copyright Office in accordance with title 17, *United States Code*, attests that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.

*Marybeth Peters*

Register of Copyrights, United States of America

REGISTRATION NUMBER **VAu 756-020**

TX TXU PA PAU VA **VAU** SR SRU RE

EFFECTIVE DATE OF SUPPLEMENTARY REGISTRATION

**MAY 21 2008**

Month Day Year

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

**A**

Title of Work ▼

New Elementary Schools 1 and 2 (Southbury Elementary) Architectural Plans-not yet constructed

Registration Number of the Basic Registration ▼

VAu 739-070

Year of Basic Registration ▼

2007

Name(s) of Author(s) ▼

Kluber, Skahan & Associates, Inc.

Name(s) of Copyright Claimant(s) ▼

Kluber, Skahan & Associates, Inc.

**B**

Location and Nature of Incorrect Information in Basic Registration ▼

Line Number 1 Line Heading or Description Nature of this Work

Incorrect Information as It Appears in Basic Registration ▼

The Nature of this Work was provided as Architectural Work.

Corrected Information ▼

The Nature of this Work should be Architectural Plans.

Explanation of Correction ▼

**C**

Location and Nature of Information in Basic Registration to be Amplified ▼

Line Number 6a Line Heading or Description Derivative work

Amplified Information and Explanation of Information ▼

No claim is made to any preexisting material owned by third parties or information that is in the public domain.

MORE ON BACK ►

• Complete all applicable spaces (D-G) on the reverse side of this page.  
• See detailed instructions • Sign the form at Space F

DO NOT WRITE HERE

FORM CA RECEIVED

FORM CA

MAY 21 2008

FUNDS RECEIVED DATE

MAY 21 2008

EXAMINED BY

CORRESPONDENCE ☐REFERENCE TO THIS REGISTRATION ADDED TO  
BASIC REGISTRATION ☒ YES ☐ NOFOR  
COPYRIGHT  
OFFICE  
USE  
ONLY

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

Continuation of: ☒ Part B or ☒ Part C

Part B

Line 2a

Description: Nature of Authorship

Incorrect information:

The box was checked for "Architectural plans."

Correct information:

The boxes should be checked for "Technical Drawings" and "Text."

Part C

Line 6b

Description: Material added to this work

Original work of authorship of specifications, text, and technical drawings.

Correspondence: Give name and address to which correspondence about this application should be sent.

Joseph T. Kucala, Jr. c/o Norvell IP llc  
1776 Ash Street  
Northfield, IL 60093

Phone ( 630 ) 453-8380

Fax ( 312 ) 268-5063

Email jkucala@norvellip.com

Deposit Account: If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.

Name \_\_\_\_\_

Account Number \_\_\_\_\_

Certification\* I, the undersigned, hereby certify that I am the: (Check only one)

☐ author☐ owner of exclusive right(s)☐ other copyright claimant☒ duly authorized agent of Kluber, Skahan & Associates, Inc.

Name of author or other copyright claimant, or owner of exclusive right(s) ▲

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

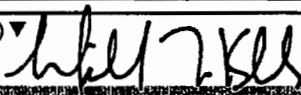
Typed or printed name ▼

Michael T. Kluber

Date ▼

16 May 08

Handwritten signature (X) ▼

Certificate  
will be  
mailed in  
window  
envelope  
to this  
address:

Name ▼

Joseph T. Kucala, Jr.

Number/Street/Apt ▼

1776 Ash Street

City/State/ZIP ▼

Northfield, Illinois 60093

## YOU MUST:

- Complete all necessary spaces
- Sign your application in Space F

SEND ALL ELEMENTS  
IN THE SAME PACKAGE:

1. Application form
2. Nonrefundable filing fee in check or money order payable to Register of Copyrights

## MAIL TO:

Library of Congress  
Copyright Office  
101 Independence Avenue SE  
Washington, DC 20559-6000



ABBREVIATIONS

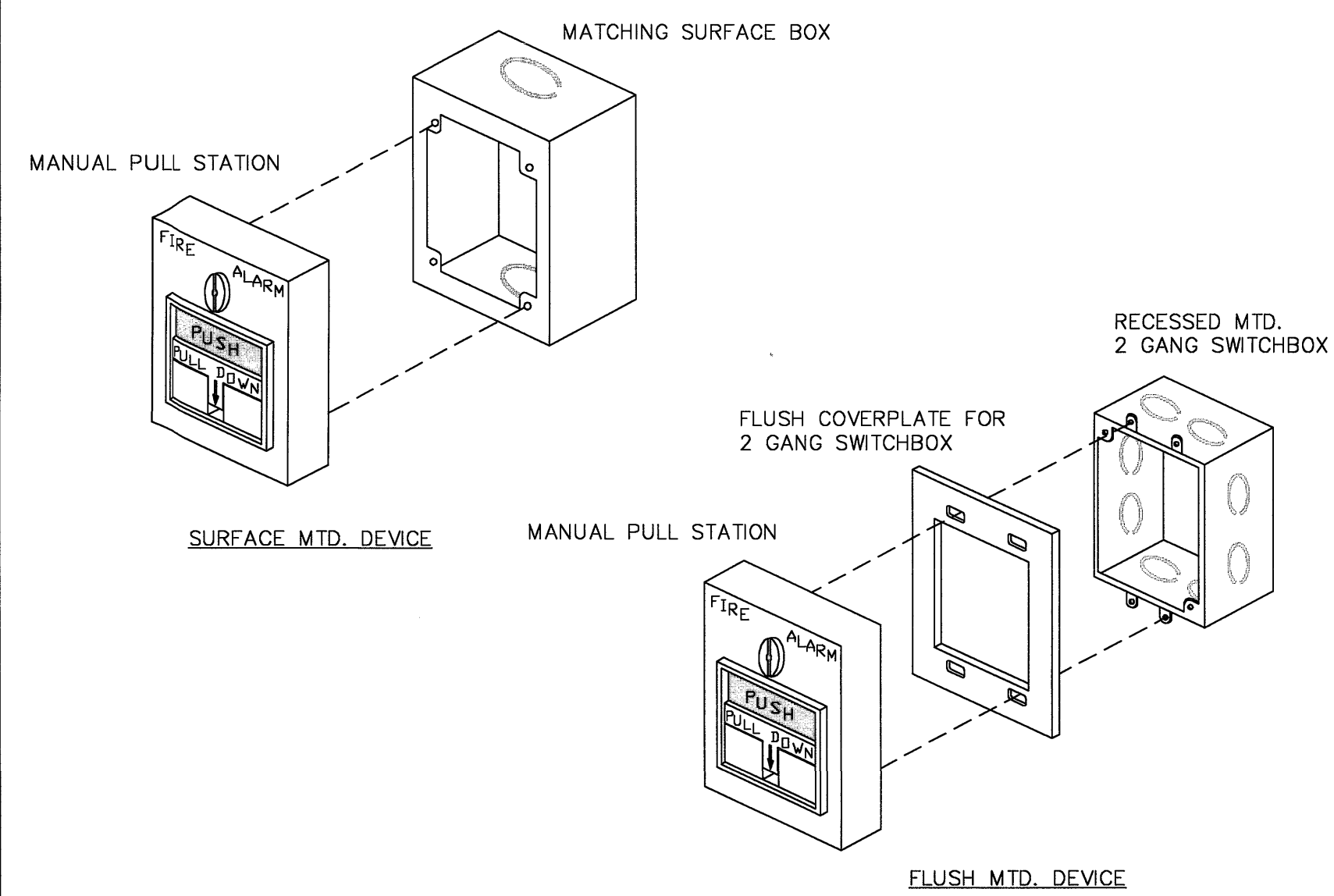
SYMBOL		DESCRIPTION		SYMBOL		DESCRIPTION	
<b>A</b>				<b>S</b>			
A	AMPS	SC	SEPARATE CIRCUIT				
AF	AMPERE FRAME/AMPERE FUSE	SD	SMOKE DETECTOR				
AFB	ABOVE FINISHED FLOOR	SF	SQUARE FEET				
AHU	AIR HANDLING UNIT	SPD	SURGE PROTECTION DEVICE				
AIC	AMPERE INTERRUPTING CURRENT	SPDT	SINGLE-POLE, DOUBLE-THROW				
AT	AMPERE TRIP	SPST	SINGLE-POLE, SINGLE-THROW				
ATS	AUTOMATIC TRANSFER SWITCH	SS	STAINLESS STEEL				
AWG	AMERICAN WIRE GAGE	SW	SWITCH				
		SWBD	SWITCHBOARD				
<b>B</b>				<b>T</b>			
BKR	BREAKER	T	THERMOSTAT				
BOL	BUILT-IN OVERLOAD	TELE	TELEPHONE				
BWE	BAKED WHITE ENAMEL	TC	TIME CLOCK				
BTU	BRITISH THERMAL UNIT	TCB	TEMPERATURE CONTROL BOARD				
		TS	TOGGLE SWITCH				
<b>C</b>							
C	CONDUIT	TTB	TELEPHONE TERMINAL BOARD				
CATV	CABLE TELEVISION SYSTEM	TTC	TELEPHONE TERMINAL CABINET				
C/B	CIRCUIT BREAKER	TWJ	THRU WALL AIR CONDITIONING UNIT				
CCTV	CLOSED CIRCUIT TELEVISION	TYP.	TYPICAL				
CKT	CIRCUIT						
CU	COPPER						
<b>D</b>				<b>U</b>			
DPDT	DOUBLE-POLE, DOUBLE-THROW	UG	UNDERGROUND				
DPST	DOUBLE-POLE, SINGLE-THROW	UH	UNIT HEATER				
DS	DOWNSPOUT	UL	UNDERWRITERS LABORATORIES, INC.				
		U.N.O.	UNLESS NOTED OTHERWISE				
		UM	UNIT MANUFACTURER				
		UPS	UNINTERRUPTIBLE POWER SUPPLY				
<b>E</b>				<b>V</b>			
EBH	ELECTRIC BASEBOARD HEATER	V	VOLT				
EC	ELECTRICAL CONTRACTOR	VA	VOLT-AMPERES				
ECH	ELECTRIC CABINET HEATER	VAC	VOLT ALTERNATING CURRENT				
EF	EXHAUST FAN	VAV	VARIABLE AIR VOLUME				
EM	EMERGENCY	VFD	VARIABLE FREQUENCY DRIVE				
EWT	ELECTRICAL METALLIC TUBING						
EWG	ELECTRIC WATER COOLER						
EWB	ELECTRIC WATER HEATER						
<b>F</b>				<b>W</b>			
F	FUSED	W	WATT				
FAAP	FIRE ALARM ANNUNCIATOR PANEL	W/O	WITHOUT				
FACP	FIRE ALARM CONTROL PANEL	WG	WIRE GUARD				
FC	FUSE CLIP SIZE	WP	WEATHER PROOF				
FPB	FAN POWERED BOX						
FBO	FURNISHED BY OTHERS						
FLA	FULL LOAD AMPS						
FLR	FLOOR						
FPC	FIRE PROTECTION CONTRACTOR						
FS	FLOAT SWITCH						
FVNR	FULL-VOLTAGE, NON-REVERSING						
<b>G</b>				<b>X</b>			
GC	GENERAL CONTRACTOR	X	EXISTING EQUIPMENT				
GFI	GROUND FAULT CIRCUIT INTERRUPTER	XFMR	TRANSFORMER				
GRD	GROUND	XP	EXPLOSION-PROOF				
GRS	GALVANIZED RIGID STEEL						
<b>H</b>				<b>MISCELLANEOUS</b>			
HOA	HAND-OFF-AUTOMATIC	2-SP	TWO SPEED				
HP	HORSEPOWER						
HPS	HIGH PRESSURE SODIUM						
HVAC	HEATING AND VENTILATING CONTRACTOR						
HWGC	HEAVY WALL GALVANIZED CONDUIT						
<b>I</b>							
IDF	INTERMEDIATE DISTRIBUTION FRAME						
IG	ISOLATED GROUND						
INC	INCANDESCENT						
INT	INTEGRAL						
IR	IN ROOM						
IU	IN UNIT						
<b>J</b>							
JB	JUNCTION BOX						
<b>K</b>							
Kcmil	1000 CIRCULAR MILS						
KV	KILOVOLT						
KVA	KILOVOLT-AMPS						
KVAR	KILOVOLT-AMPS REACTIVE						
KW	KILOWATT						
KWH	KILOWATT-HOUR						
<b>L</b>							
LP	LOW PRESSURE						
LV	LOW-VOLTAGE						
LVT	LOW-VOLTAGE THERMOSTAT						
<b>M</b>							
MAG	MAGNETIC MOTOR STARTER						
MAN	MANUAL MOTOR STARTER W/THERMAL OVERLOAD PROTECTION						
MC	MECHANICAL CONTRACTOR						
MCA	MAXIMUM CURRENT AMPACITY						
MCB	MAIN CIRCUIT BREAKER						
MCC	MOTOR CONTROL CENTER						
MD	MOTORIZED DAMPER						
MDF	MAIN DISTRIBUTION FRAME						
MDP	MAIN DISTRIBUTION PANEL						
MFR	MANUFACTURER						
MH	METAL HALIDE						
MLO	MAIN LUG ONLY						
MOP	MINIMUM OVERCURRENT PROTECTION						
MS	MANUAL SWITCH						
MSBD	MAIN SWITCH BOARD						
MTD	MOUNTED						
MUA	MAKE-UP AIR UNIT						
<b>N</b>							
N/A	NOT APPLICABLE						
N.C.	NORMALLY CLOSED						
NF	NON-FUSED						
N.I.C.	NOT IN CONTRACT						
NI	NIGHT LIGHT						
N.O.	NORMALLY OPEN						
N.T.S., NTS	NOT TO SCALE						
NU	NEAR UNIT						
<b>O</b>							
O.H.	OVERHEAD						
OU	ON UNIT						
OPDP	OVERCURRENT PROTECTION DEVICE						
<b>P</b>							
PB	PUSH BUTTON						
PDU	POWER DISTRIBUTION UNIT						
PH	PHASE						
PNL	PANEL						
PROVIDE	FURNISHED, INSTALLED, WIRED AND CONNECTED COMPLETE BY CONTRACTOR						
PVC	POLYVINYL CONDUIT						
PW	PRE-WIRED						
<b>Q</b>							
QTY.	QUANTITY						
<b>R</b>							
REQ'D	REQUIRED						
RTU	ROOF TOP UNIT						

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ABBREVIATIONS, ETC., ARE NECESSARILY USED IN THIS PROJECT.

ELECTRICAL SYMBOL'S LIST

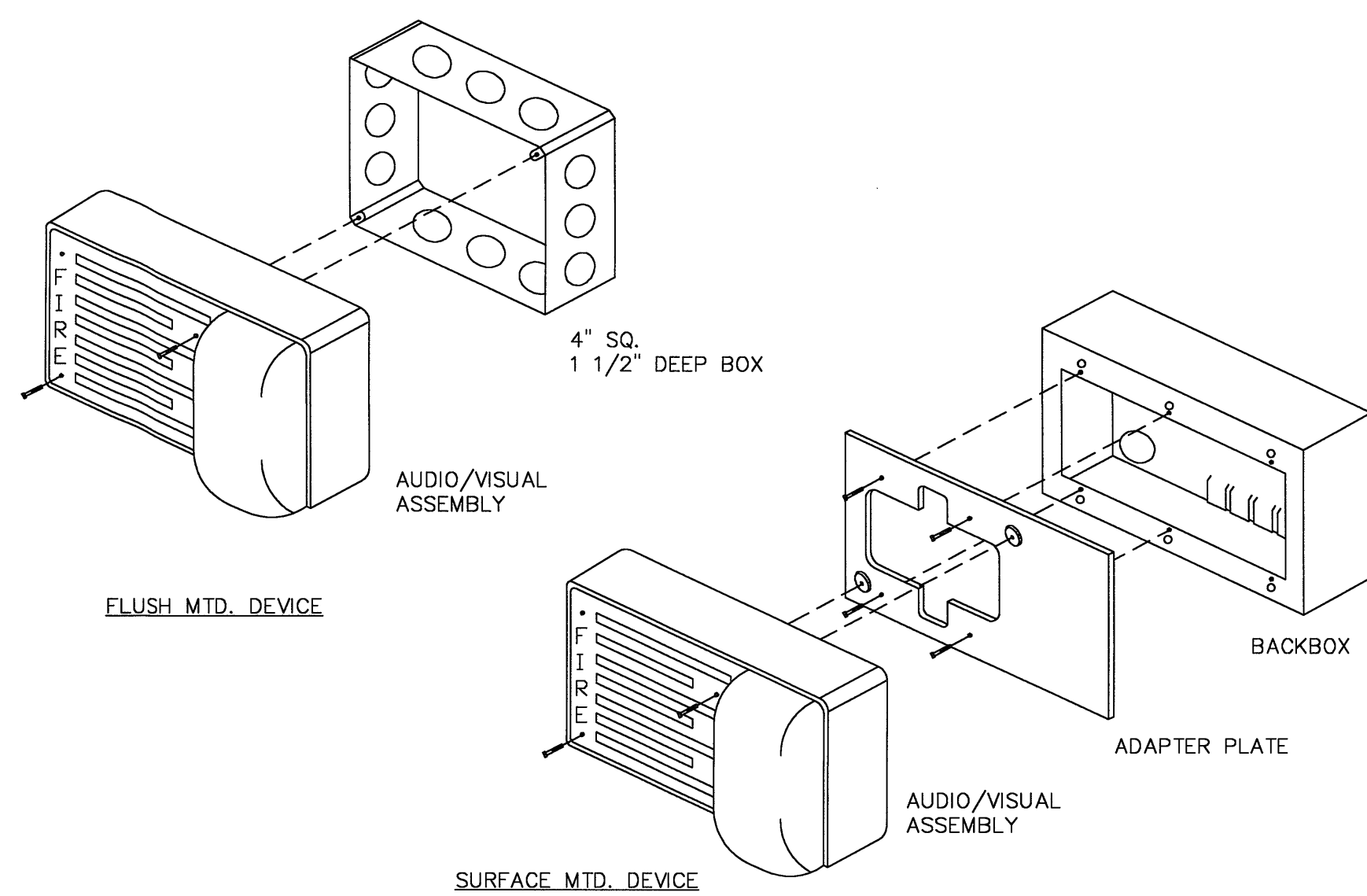
SYMBOL			DESCRIPTION	SYMBOL			DESCRIPTION
CEILING	WALL	FLOOR		CEILING	WALL	FLOOR	
LUMINARIES							
			2x4 FLUORESCENT FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE. SHADING-NIGHT LIGHT				FIRE ALARM PULL STATION. Ø48" AFF
			2x2 FLUORESCENT FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE. NIGHT LIGHT AND EMERGENCY FIXTURE.				FIRE ALARM STROBE LIGHT. NUMBER INDICATES CANDELA LEVEL. (110cd UNLESS NOTED OTHERWISE) Ø60" AFF
			FIXTURE WITH NORMAL/EMERGENCY LIGHTING TRANSFER DEVICE. SEE LIGHTING FIXTURE SCHEDULE.				FIRE ALARM HORN/STROBE COMBINATION. Ø60" AFF. NUMBER INDICATES CANDELA LEVEL. (110cd UNLESS NOTED OTHERWISE)
			4' FLUORESCENT INDIRECT FIXTURE TYPE. SEE LIGHT FIXTURE SCHEDULE.				SMOKE DETECTOR. E=ELEVATOR RECALL.
			4' FLUORESCENT STRIP FIXTURE TYPE. SEE LIGHT FIXTURE SCHEDULE. A= FIXTURE TYPE, 2= CIRCUIT ASSIGNMENT, e=SWITCH LEG				HEAT DETECTOR. NUMBER=TEMP. RATING, RR=RATE OF RISE.
			DOWN LIGHT FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE.				FIRE ALARM DUCT SMOKE DETECTOR WITH FAN SHUT DOWN RELAY.
			TRACK LIGHT FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE.				REMOTE INDICATING LIGHT WITH TEST SWITCH.
			WALL MTD. FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE.				PROGRAMMABLE FAN SHUT DOWN RELAY.
			SELF CONTAINED EMERGENCY BATTERY PACK W/ BATTERY BACK-UP SEE LIGHTING FIXTURE SCHEDULE.				SPRINKLER ALARM FLOW SWITCH. FURNISHED BY DIV.15, WIRED BY E.C.
			LED EXIT SIGN. ARROWS AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE. WG= WIRE GUARD, PG= PLEXIGLASS SHIELD.				SPRINKLER ALARM TAMPER SWITCH. FURNISHED BY DIV. 15, WIRED BY E.C.
			EM/EXIT COMBO UNIT. SEE LIGHTING FIXTURE SCHEDULE.				MONITOR/CONTROL MODULE. S=SINGLE POINT MONITOR MODULE, D=DUAL POINT, C=CONTROL MODULE.
			SINGLE POLE TOGGLE SWITCH. 15A OR 20A AS REQUIRED. 120/277V e=SWITCHING CONTROL, P=PILOT LIGHT, K=KEYED SW., LV=LOW VOLTAGE				MAGNETIC DOOR HOLDER FOR FIRE ALARM SYSTEM. W=WALL, F=FLOOR.
			3-WAY TOGGLE SWITCH. 15A OR 20A AS REQUIRED. 120/277V 3=3 WAY DIMMER				SPRINKLER BELL. WP=WEATHER PROOF.
			LIGHTING CONTROL DIMMER SWITCH. SIZE AS INDICATED.				END OF LINE RESISTOR.
			MOMENTARY CONTACT SWITCH. K=KEY SWITCH				FIRE FIGHTERS HAT.
			THERMAL OVERLOAD SWITCH.				ANSUL SYSTEM.
WIRING DEVICES & OUTLETS				SECURITY & SIGNALING SYSTEM			
			SPECIAL PURPOSE SINGLE RECEPTACLE. Ø18" AFF MATCH CONFIGURATION TO EQUIPMENT.				CCTV CAMERA. WP=WEATHER PROOF. SECURITY MONITOR.
			DUPLEX RECEPTACLE. 20A 125V 2P 3W GRD. NEMA5-20R. Ø18" AFF D=DEDICATED CIRCUIT. 1' =MTD. Ø48" AFF, OR Ø6" ABOVE COUNTER.				MOTION SENSOR. B=BROAD BEAM, L=LONG RANGE BEAM.
			GFCI(GROUND FAULT CIRCUIT INTERRUPTER) PROTECTED RECEPTACLE. WP=WEATHER PROOF. 20A 125V 2P 3W GRD. NEMA5-20R. Ø18" AFF				PANIC BUTTON. D=DESK, W=WALL, F=FLOOR.
			ISOLATED GROUND(G) RECEPTACLE. Ø18" AFF 20A 125V 2P 3W GRD. NEMA5-20R OR AS SPECIFIED.				AUTOMATIC DOOR OPENER. WP=WEATHER PROOF.
			DOUBLE DUPLEX RECEPTACLE. Ø18" AFF 20A 125V 2P 3W GRD. NEMA5-20R.				DOOR PROCESSING UNIT.
			DUPLEX RECEPTACLE W/ VIDEO OUTLET IN 2-GANG JBOX. REFER TO VIDEO OUTLET DETAIL. 20A 125V 2P 3W GRD. NEMA5-20R. Ø96" AFF				SECURITY CONTROL PANEL "MAIN BRAIN"
			FURNITURE RECEPTACLE. COORDINATE WITH FURNITURE OR CABINET MANUFACTURER. 20A 125V 2P 3W GRD. NEMA5-20R OR AS SPECIFIED.				PROXIMITY READER. DOUBLE GANG JUNCTION BOX WITH SINGLE GANG PLASTER RING AND 3/4" C TO INDOOR ACCESSIBLE CEILING SPACE.
			TAMPERS PROOF DUPLEX RECEPTACLE. 20A 125V 2P 3W GRD. Ø18" AFF D=DEDICATED CIRCUIT. 1' = MTD. Ø48" AFF, OR Ø6" ABOVE COUNTER.				MAGNETIC DOOR CONTACT SWITCH.
			CEILING RECEPTACLE, DROP CORD, OR CORD REEL AS NOTED.				ELECTRIC DOOR STRIKE.
			TELEPHONE OUTLET Ø18" AFF. REFER TO COMMUNICATION OUTLET DETAIL. W=PUBLIC WALL PHONE Ø64" AFF. 2V= 2 PHONE JACKS. ▼ = 6" ABOVE COUNTER				DOOR BELL/CHIME/BUZZER
			COMMUNICATIONS OUTLET Ø18" AFF. REFER TO COMMUNICATION OUTLET DETAIL. B = BLANK JACK, AV= AUDIO/VISUAL JACK, MIC= MICROPHONE JACK. ▼ = 6" ABOVE COUNTER, AUX = AUX. CONNECT.				LOW VOLTAGE TRANSFORMER.
			FLUSH MTD. FLOOR BOX AND RECEPTACLE. (COVER & CARPET FLANGE SELECTED BY ARCHITECT/OWNER)	INTERCOM, CLOCK, & SOUND SYSTEM			
			STAINLESS STEEL PEDESTAL MTD. FLOOR BOX AND RECEPTACLE (SEE FLOOR PLANS FOR RECEPTACLE TYPE - I.E. GFI, SPECIAL, ETC.)				PA/CLOCK SYSTEM CLOCK. D=DOUBLE FACE
			FLUSH MTD. FLOOR BOX AND TELE/DATA OUTLET. (COVER & CARPET FLANGE SELECTED BY ARCHITECT/OWNER)				PA/CLOCK SYSTEM SPEAKER. L=LOUD SPEAKER. WP=WEATHER PROOF.
			MULTI SERVICE CAST IRON RECESSED FLOOR BOX. (COVER & CARPET FLANGE SELECTED BY ARCHITECT/OWNER)				PA/CLOCK SYSTEM VOLUME CONTROL.
			POKE THRU POWER. (SERVICE FITTING SELECTED BY ARCHITECT/OWNER)				MICROPHONE JACK.
			POKE THRU TELE/DATA. (SERVICE FITTING SELECTED BY ARCHITECT/OWNER)				LOCAL SOUND SYSTEM SPEAKER.
			POKE THRU COMBINATION POWER AND DATA (SEE PLANS FOR EXACT CONFIGURATIONS - SERVICE FITTING SELECTED BY ARCHITECT/OWNER)				POWER SUPPLY.
			SPECIAL PURPOSE OUTLET. NEMA SIZE AS NOTED. PD = PEDESTAL MOUNTED, STAINLESS STEEL ENCLOSURE				AMPLIFIER.
			MULTI-CHANNEL SURFACE RACEWAY Ø48" AFF OR Ø60" ABOVE COUNTER. RUN LENGTH AS SHOWN ON PLANS W/RECEP. 6" ON CENTER, U.N.O.				SINGLE GANG WALL BOX FOR MICROPHONE JACKS +18" A.F.F. ROUTE 3/4" C. FROM JUNCTION BOX TO SOUND SYSTEM CABINET.
			SCIENCE STATION. COMBINATION AC/DC OUTLET AND JACKS. FIXED AND VARIABLE CIRCUITS AS INDICATED.				SINGLE GANG WALL BOX FOR MICROPHONE JACKS +18" A.F.F. ROUTE 3/4" C. FROM JUNCTION BOX TO SOUND SYSTEM CABINET.
			HAND DRYER. PROVIDE TOGGLE 30A/1P DISCONNECT SWITCH ABOVE ACCESSIBLE CEILING.				DUAL GANG WALL BOX FOR REMOTE CONTROL +45" A.F.F. ROUTE 3/4" C. FROM JUNCTION BOX TO SOUND SYSTEM CABINET.
			JUNCTION BOX				AUDIO/VISUAL OUTLET WITH 1" CONDUIT STUBBED TO ACCESSIBLE CEILING SPACE WITH PULL STRING. COORDINATE EXACT SIZE OF JUNCTION BOX WITH VOICE/DATA CONTRACTOR
			PULL BOX. SIZE AS NOTED.				AUDIO/VISUAL JUNCTION BOX
			POWER/TELEPHONE/DATA POLE OR MULTI CHANNEL METAL RACEWAY VERTICAL RUN. REFER TO DRAWINGS & DETAILS.	TELE/DATA, VIDEO SYSTEM			
			ELECTRICALLY HELD LIGHTING CONTACTOR. SIZE, COIL VOLTAGE, AND NUMBER OF POLES AS INDICATED.				TV OUTLET WITH 3/4" C. STUBBED TO ACCESSIBLE CEILING SPACE WITH PULL STRING. REFER TO TELE/DATA OUTLET DETAIL.
			ELECTRONIC TIME CLOCK.				ANTENNA OUTLET
			PHOTOCELL.				INTERMEDIATE DISTRIBUTION FRAME.
			FLEXIBLE CONDUIT CONNECTION.				MAIN DISTRIBUTION FRAME.
			WIRING IN CONDUIT CONCEALED ABOVE CEILING, IN WALL AND UNDER FLOOR OR UNDERGROUND.				PHONE DISTRIBUTION CABINET
			WIRING IN CONDUIT EXPOSED ON CEILING OR WALL				PLYWOOD TELEPHONE TERMINAL BOARD. SIZE AS SHOWN.
			BRANCH CIRCUIT WIRING IN CONDUIT HOMERUN TO PANEL. ONE ARROW PER HOMERUN. SLASHES INDICATE NUMBER OF CONDUCTORS.	DEMOLITION			
			INDICATES GROUND CONDUCTOR.				NEW DEVICE OR EQUIPMENT.
			INDICATES ISOLATED GROUND CONDUCTOR.				EXISTING ELECTRICAL OUTLET OR EQUIPMENT TO BE DEMOLISHED COMPLETE INCLUDING BRANCH CIRCUITRY TO SOURCE.
POWER EQUIPMENT & DEVICES							REMOVED & REPLACED EXISTING EQUIPMENT WITH NEW AS SPECIFIED.
			MANUAL MOTOR STARTER OR TP DISCONNECT SWITCH WITH THERMAL OVERLOAD PROTECTION.				EXISTING ELECTRICAL OUTLET OR EQUIPMENT TO REMAIN. (CIRCUIT # = REROUTE EXISTING CIRCUIT TO NEW CIRCUIT NUMBER)
			SPEED CONTROL SWITCH FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.				EXISTING ELECTRICAL OUTLET OR EQUIPMENT RELOCATED. (NEW LOCATION)
			UP/DOWN/STOP PUSHBUTTON CONTROL STATION.				EXISTING ELECTRICAL OUTLET OR EQUIPMENT TO BE REMOVED & RELOCATED(OLD LOCATION).
			SAFETY SWITCH. N=NON-FUSED (AMPS/POLES/ENCLOSURE). F=FUSED (AMPS/FUSE/POLES/ENCLOSURE).	MISCELLANEOUS			
			MAGNETIC MOTOR STARTER. NEMA SIZE AS NOTED.				HVAC EQUIPMENT IDENTIFICATION
			COMBINATION MAGNETIC MOTOR STARTER AND FUSED DISCONNECT SW. (AMPS/FUSE/POLES/NEMA SIZE).				KEYNOTE IDENTIFICATION
			MOTOR. HP= HORSE-POWER RATING.				DETAIL IDENTIFICATION
			ELECTRIC HEAT OUTLET	MOUNTING HEIGHT			
			RED MUSHROOM BUTTON FOR EMERGENCY SHUT-DOWN OF EQUIPMENT. PUSH OFF, KEY REQUIRED TO TURN BACK ON.				48" 80"
			PANEL 240V & BELOW.				12"-0" 48"
			PANEL ABOVE 240V.				80" 18"
			TRANSFORMER. TYPE AND RATINGS ARE AS SHOWN.				48" 12"-0"
			GENERATOR REMOTE ANNUNCIATOR PANEL.				18" 24"
			EQUIPMENT CONTROL PANEL.				30" 54"
			CEILING FAN				18" 48"
FIRE ALARM, EMERGENCY EVACUATION/COMMUNICATION SYSTEM							48" 72"
			FIRE ALARM CONTROL PANEL.				96" 96"
			FIRE ALARM ANNUNCIATOR PANEL.				
			FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT BOOSTER PANEL.				





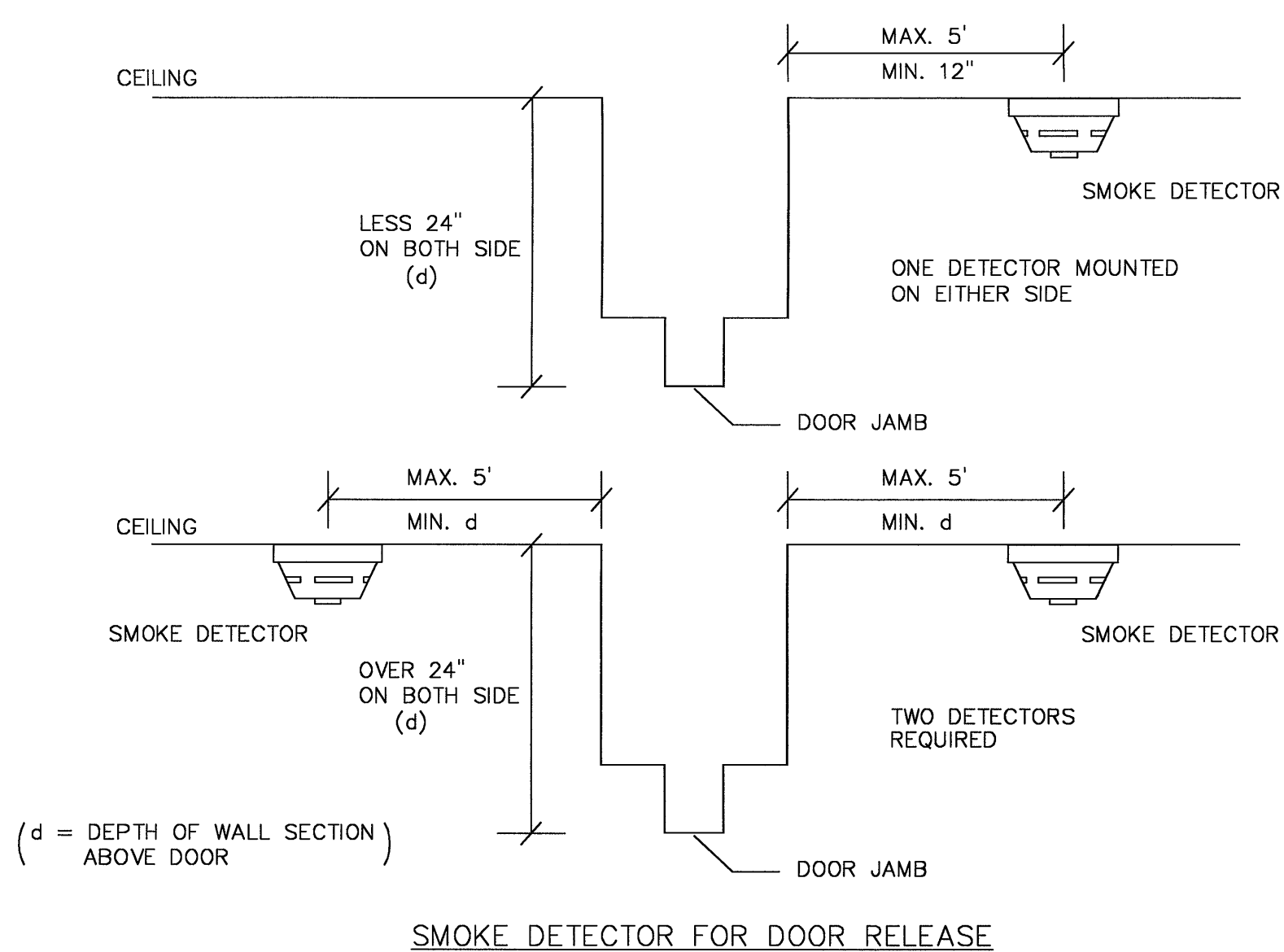
**PULL STATION MTD. DETAIL**  
SCALE: NTS

4



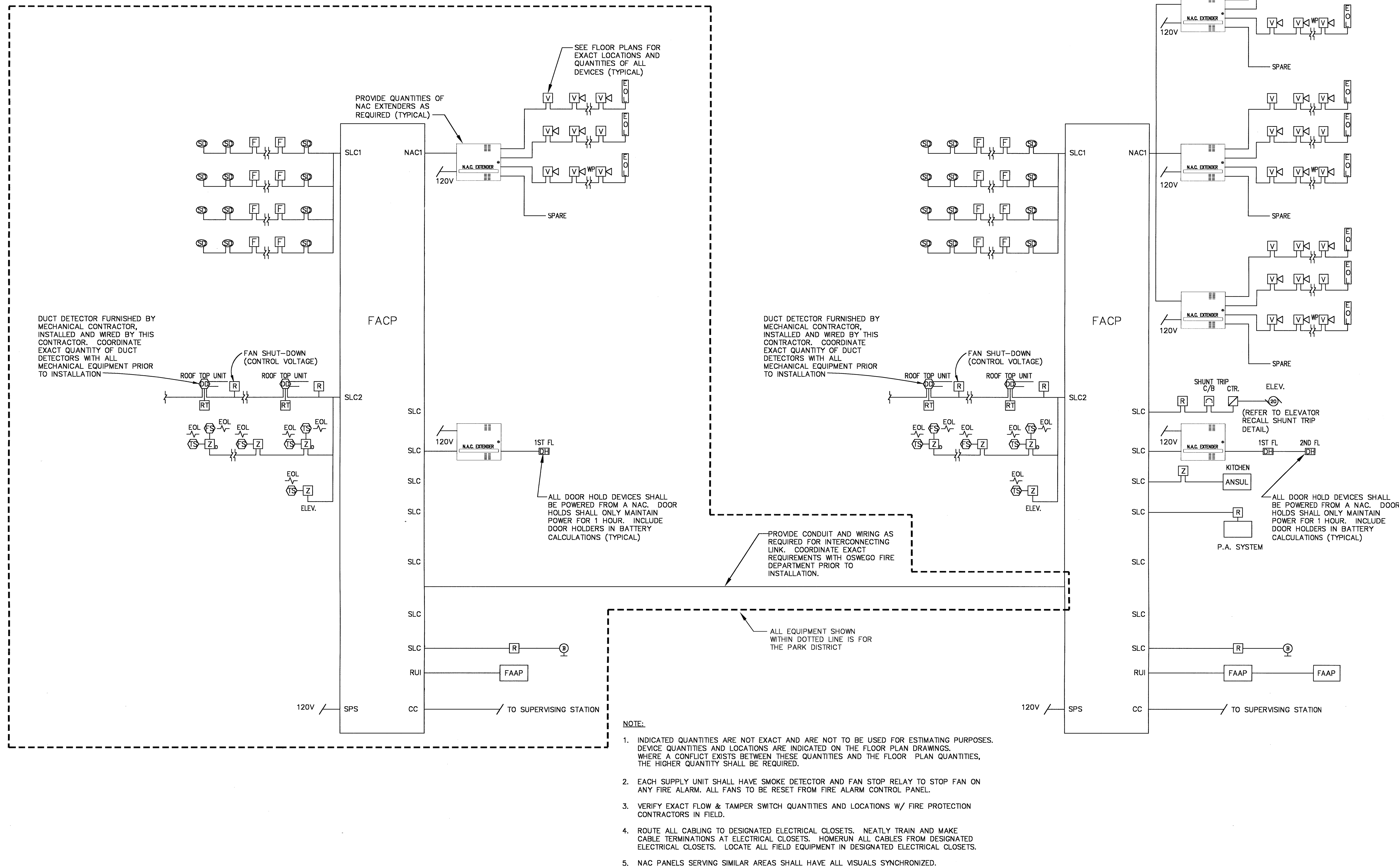
**A/V MTD. DETAIL**  
SCALE: NTS

5



**SMOKE DETECTOR FOR DOOR RELEASE DETAIL**  
SCALE: NTS

6



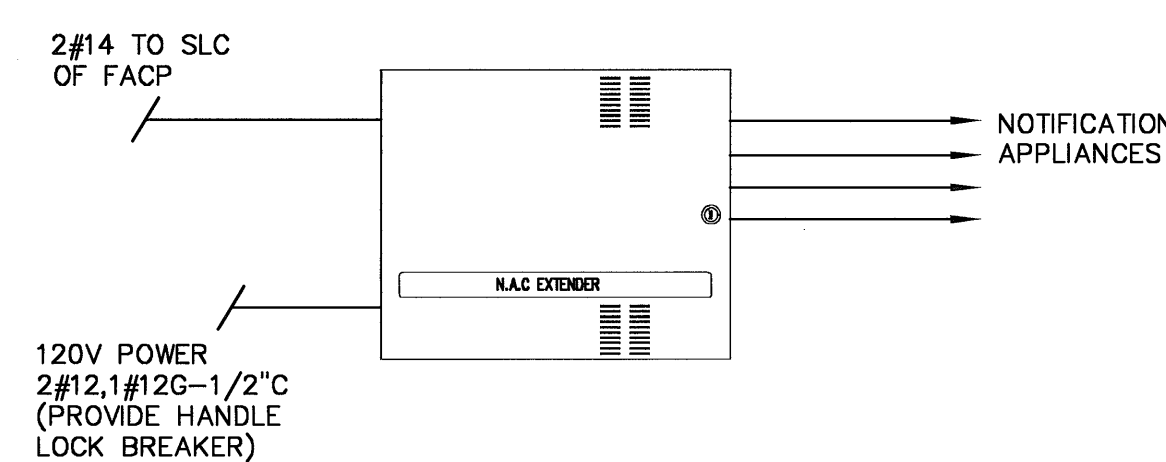
**NOTE:**

1. INDICATED QUANTITIES ARE NOT EXACT AND ARE NOT TO BE USED FOR ESTIMATING PURPOSES. DEVICE QUANTITIES AND LOCATIONS ARE INDICATED ON THE FLOOR PLAN DRAWINGS. WHERE A CONFLICT EXISTS BETWEEN THESE QUANTITIES AND THE FLOOR PLAN QUANTITIES, THE HIGHER QUANTITY SHALL BE REQUIRED.
2. EACH SUPPLY UNIT SHALL HAVE SMOKE DETECTOR AND FAN STOP RELAY TO STOP FAN ON ANY FIRE ALARM. ALL FANS TO BE RESET FROM FIRE ALARM CONTROL PANEL.
3. VERIFY EXACT FLOW & TAMPER SWITCH QUANTITIES AND LOCATIONS W/ FIRE PROTECTION CONTRACTORS IN FIELD.
4. ROUTE ALL CABLING TO DESIGNATED ELECTRICAL CLOSETS. NEATLY TRAIN AND MAKE CABLE TERMINATIONS AT ELECTRICAL CLOSETS. HOMERUN ALL CABLES FROM DESIGNATED ELECTRICAL CLOSETS. LOCATE ALL FIELD EQUIPMENT IN DESIGNATED ELECTRICAL CLOSETS.
5. NAC PANELS SERVING SIMILAR AREAS SHALL HAVE ALL VISUALS SYNCHRONIZED.

**FIRE ALARM SYSTEM RISER DIAGRAM**

SCALE: NTS

1

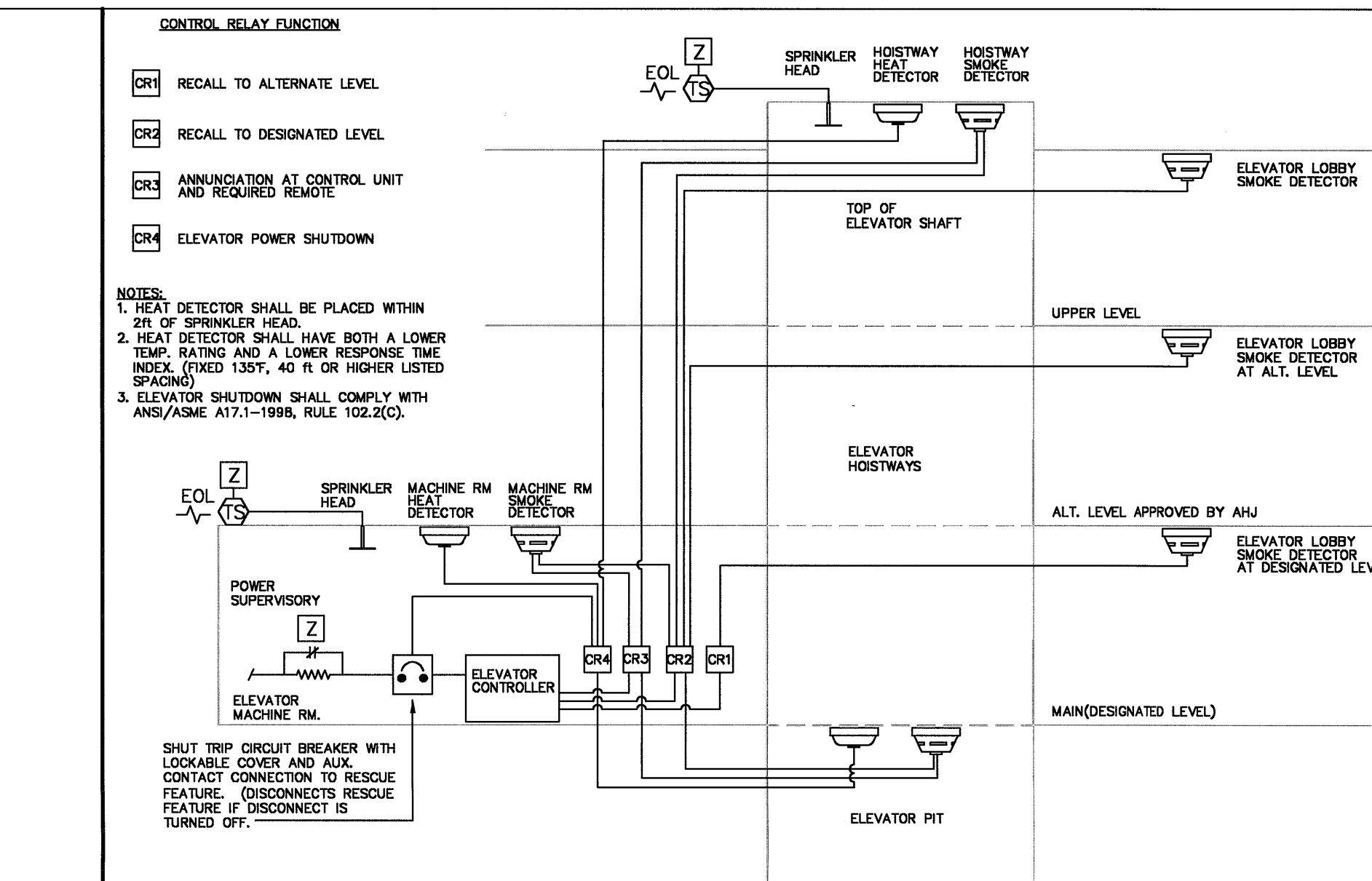


**NOTE:**

1. THIS RISER DIAGRAM IS SCHEMATIC IN NATURE. INTENDED TO DEMONSTRATE THE PERFORMANCE REQUIREMENTS OF THIS PROJECT.
2. ALL NOTIFICATION APPLIANCES SHALL BE CONNECTED TO AUXILIARY POWER N.A.C. PANEL.
3. E.C. SHALL DETERMINE QUANTITY & LOCATION OF NAC EXTENDER.
4. TOTAL CONNECTED LOAD ON SINGLE AUXILIARY POWER N.A.C. PANEL SHALL BE LIMITED TO 70% OF TOTAL CAPACITY.
5. E.C. SHALL PROVIDE CALCULATIONS ORGANIZED BY N.A.C. PANEL.

**NAC EXTENSION WIRING DETAIL**

SCALE: NTS



**ELEVATOR RECALL DETAIL**

SCALE: NTS

2

**NOT USED**

SCALE: NTS

11

**NOT USED**

SCALE: NTS

7

ISSUED  
BID DOCUMENTS

JOB NO. 06-158-551/552  
DRAWN JRW  
CHECKED MTK  
APPROVED JRW

SHEET TITLE

**FIRE ALARM SYSTEM  
RISER DIAGRAM  
& DETAILS**

SHEET NUMBER

**E620**

**NEW ELEMENTARY SCHOOLS 1 AND 2**

OSWEGO COMMUNITY UNIT SCHOOL DISTRICT 308

4175 ROUTE 71  
OSWEGO, ILLINOIS 60543

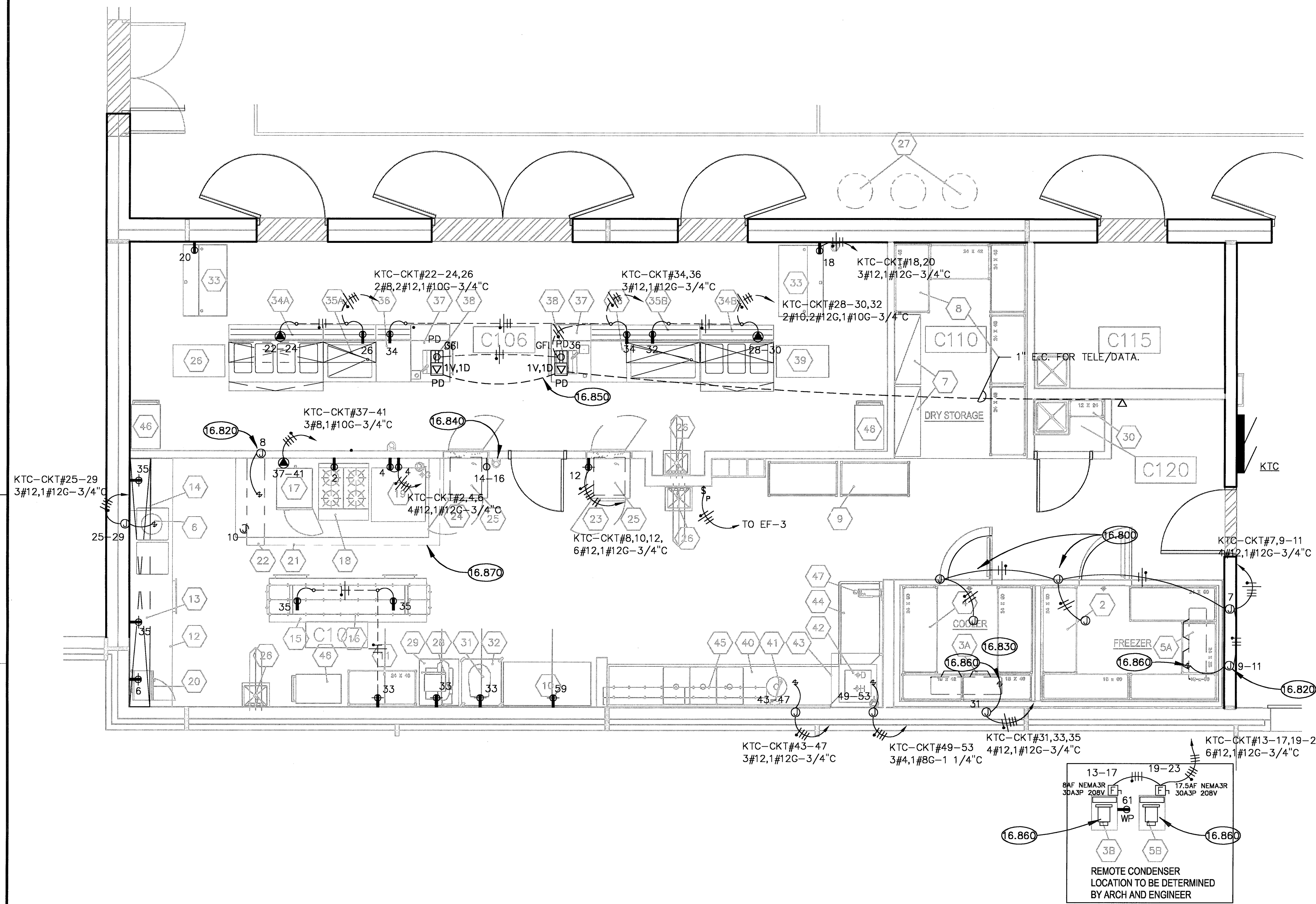
**KS+A**  
KLUBER, SKAHAN + ASSOCIATES, INC.

901 N. Batavia Ave., Suite 301  
Batavia, Illinois 60510  
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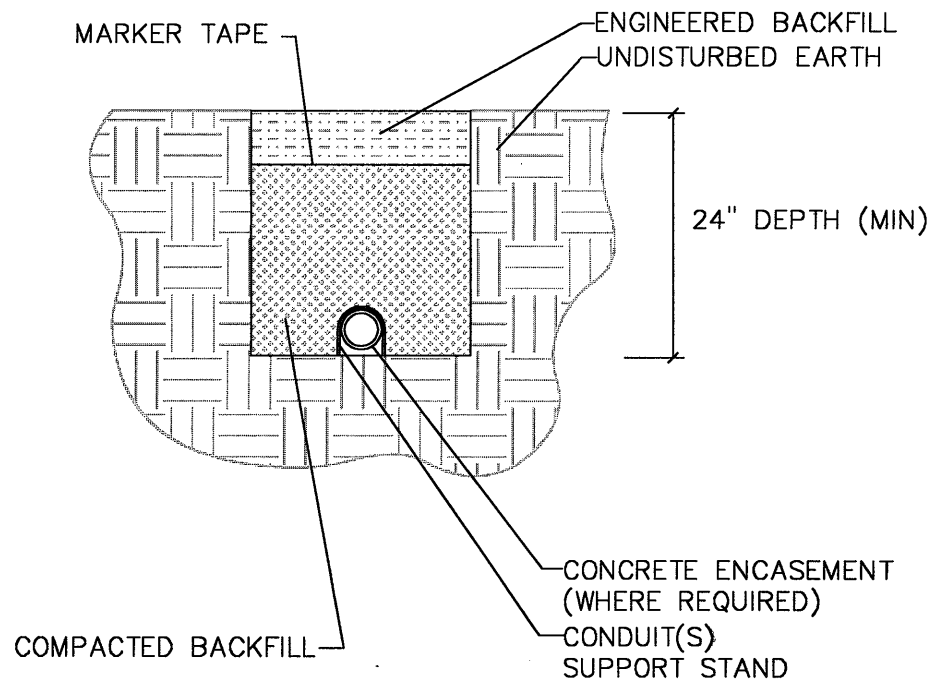




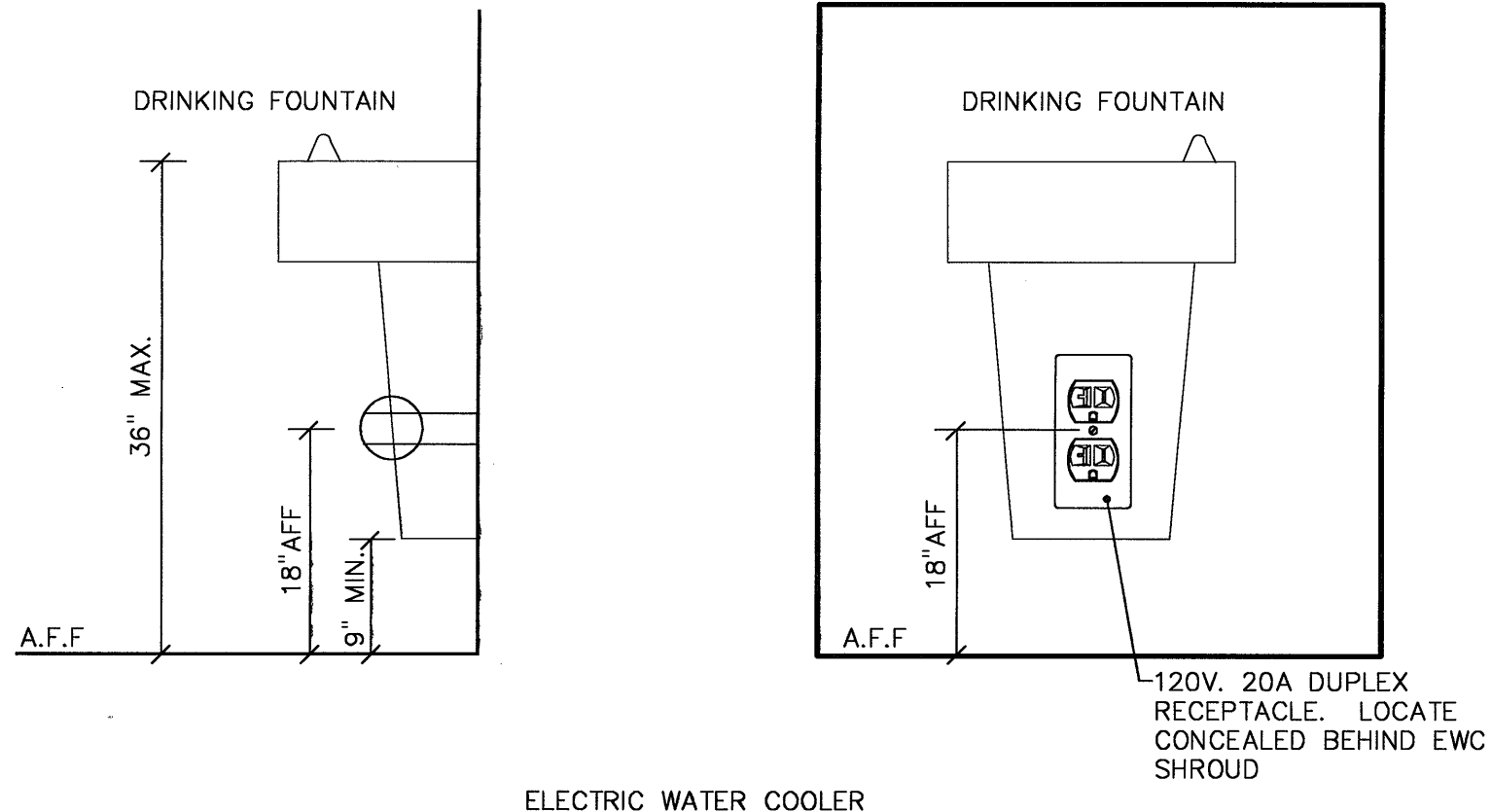


EQUIPMENT SCHEDULE		ELECTRICAL SCHEDULE						
ITEM NUMBER	ITEM DESCRIPTION	VOLTAGE	PHASE	AMPS	K.W.	HORSEPOWER	TYPE OF CONN.	REMARKS
1	WALK-IN FREEZER COOLER	120	1	20			JB	LIGHTS, DOOR HEATER, HEATING TAPE, ETC.
2	WALK-IN SHELVING							
3	COOLER REFRIGERATION SYSTEM							
3A	COOLER COIL	120	1	4.2			JB	
3B	COOLER CONDENSER	208	3		1		JB	
4	COOLER SHELVING							
5	FREEZER REFRIGERATION SYSTEM							
5A	FREEZER COIL	208	1	10.9			JB	INTERWIRE BETWEEN COIL AND CONDENSER
5B	FREEZER CONDENSER	208	3		2 1/2		JB	KEC TO VERIFY OUTLET REQUIREMENTS FOR HEATING TAPE (120V)
6	DISPOSER	208	3	3.2			JB	INTERCONNECT BETWEEN DISPOSER AND PANEL
7	CAN RACK							
8	STORAGE SHELVING							
9	DUNNAGE RACKS							
10	MOBILE TABLE	120	1	15			DGR	CONVENIENCE OUTLET
11	POT RACK							
12	PREP SINK	120	1	15			DGR	CONVENIENCE OUTLET
13	WALL SHELF							
14	WALL CABINET							
15	WORKTABLE W/DRAWERS	120	1	15			DGR	CONVENIENCE OUTLET
16	CEILING POT RACK							
17	STEAMER W/STAND	208	3	30			SGR	ONE FUTURE CONNECTION
18	4-BURNER RANGE W/CONVECTION OVEN	120	1	5			DGR	
19	CONVECTION OVEN (DOUBLE)	120	1	6EA			(2)DGR	
20	MICROWAVE OVEN W/WALL SHELF	120	1	14.6			DGR	
21	EXHAUST HOOD	120	1	20			JB	HOOD LIGHTS. INTERWIRE BETWEEN EXHAUST AN AND SWITCH
22	FIRE SUPPRESSION SYSTEM	120	1	15			JB	PROVIDE DEDICATED CIRCUIT
23	ROLL-THRU REFRIGERATOR	120	1	11.6			DGR	
24	ROLL-THRU FOOD WARMER	120/208	1	10.14			SGR	
25	ANGLE RACK							
26	HAND SINK							
27	TRASH RECEPTACLES (NOT IN 11400)							
28	SLICER	120	1	1.6			DGR	
29	SLICER STAND							
30	CHEMICAL SHELVING							
31	MIXER	120	1	8.2			DGR	
32	MIXER CART							
33	MILK COOLER	120	1	9.9			DGR	
34A	HOT FOOD TABLE	120/208	1	25.2			SGR	
34B	HOT FOOD TABLE	120/208	1	19.4			SGR	
35A	COLD FOOD COUNTER	120	1	10.9			DGR	
35B	COLD FOOD COUNTER	120	1	10.9			DGR	
36	FLAT TOP SECTION	120	1	15			DGR	CONVENIENCE OUTLET
37	CASHIER STAND	120	1	15			DDGR	DEDICATED CIRCUIT. PROVIDE EMPTY JB FOR CONTROL WIRING
38	POS SYSTEM (NOT IN 11400)							WIRED THRU CASHIER STAND ITEM 37
39	TRAY CART							
40	SOILED POT TABLE							
41	DISPOSER	208	3	3.3			JB	INTERCONNECT BETWEEN DISPOSER AND CONTROL PANEL
42	POTWASHER W/BOOSTER	208	3	50			JB	AMPERAGE BASED ON 110 DEG INCOMING H.W.
43	CONDENSATE HOOD							
44	CLEAN POT TABLE							
45	WALL MOUNTED POT RACK							
46	UTILITY CARTS							
47	HOSE REEL							

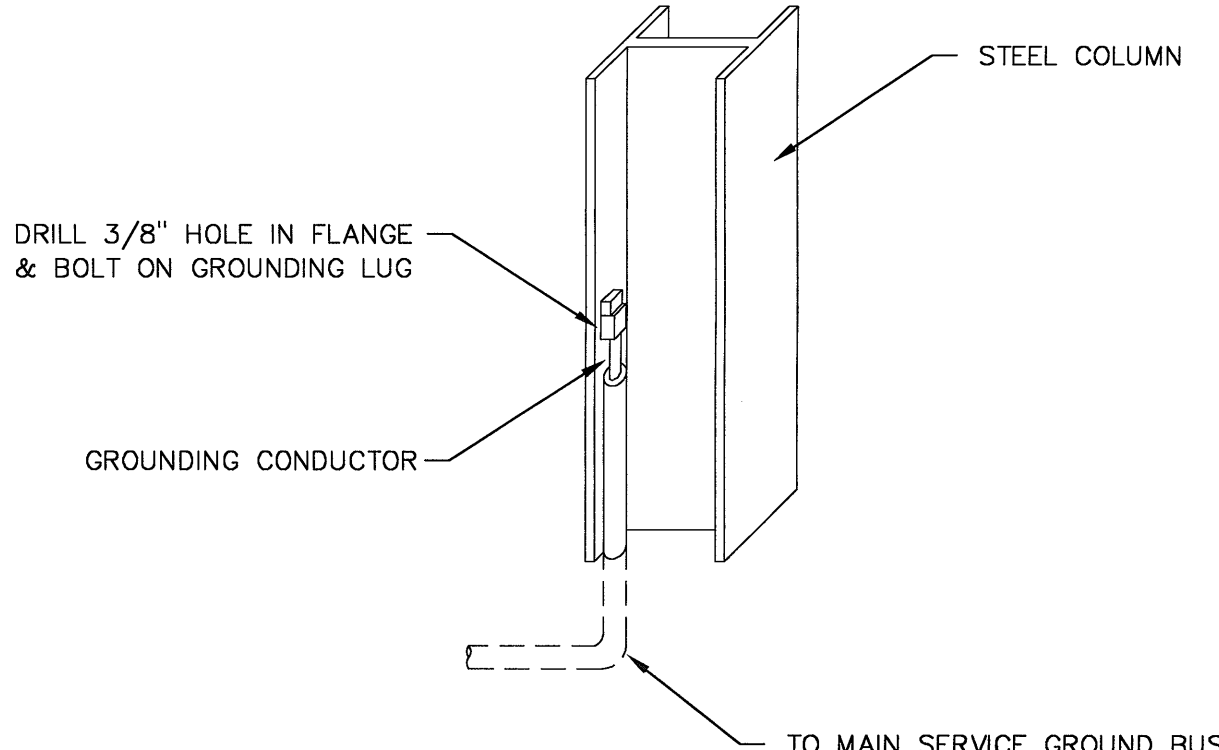
ENLARGED KITCHEN PLAN & EQUIPMENT SCHEDULE 1  
SCALE: 1/4"=1'-0"



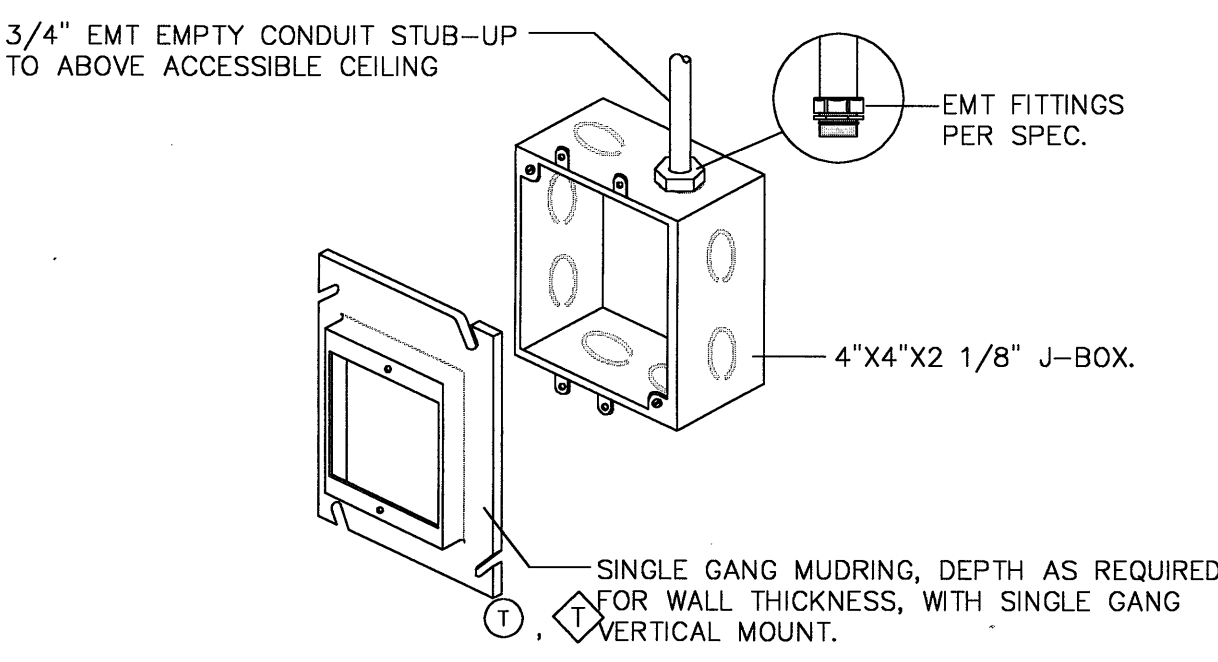
SITE TRENCHING DETAIL 8  
N.T.S.



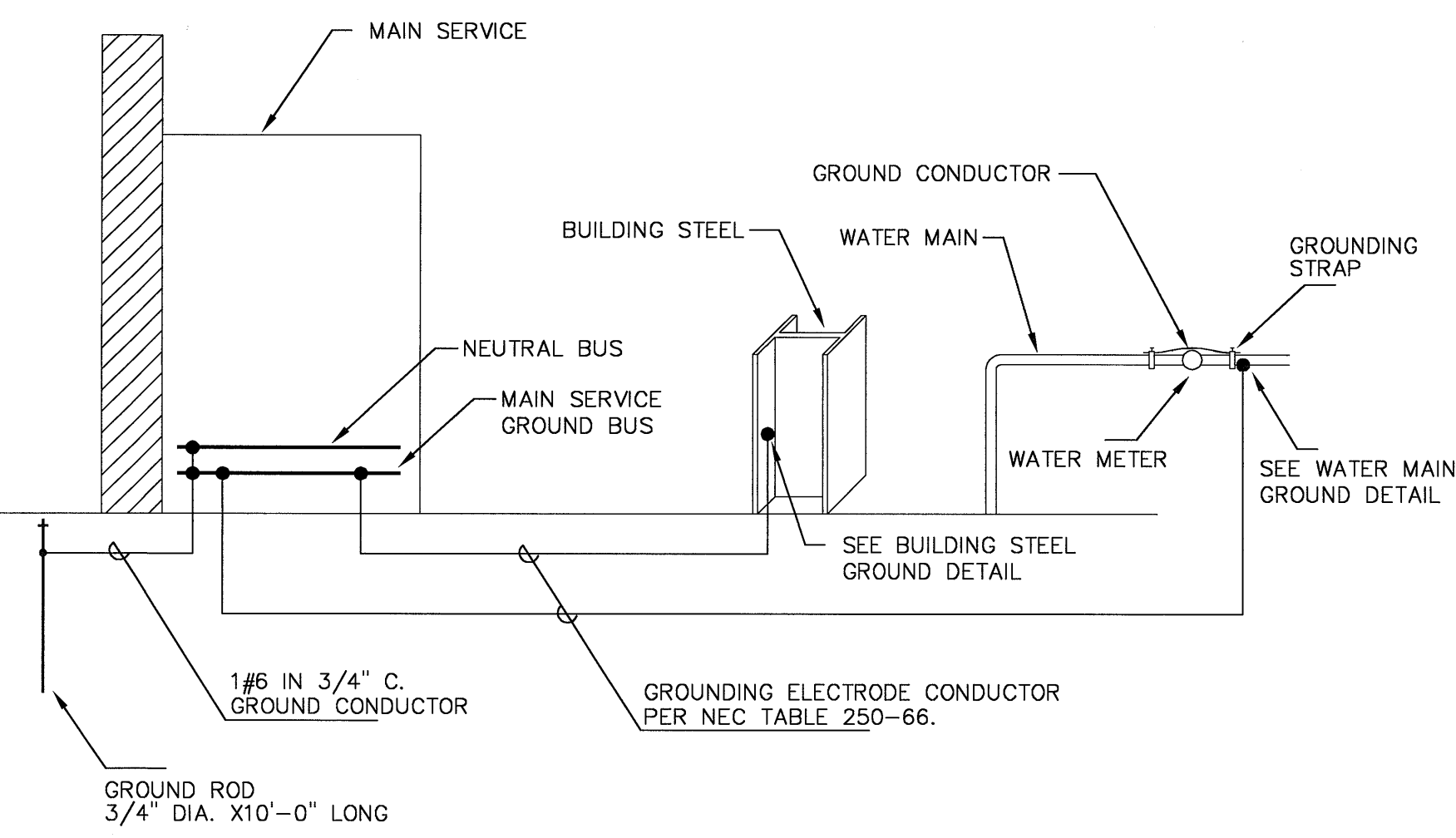
EWC OUTLET MTD. DETAIL 6  
SCALE: NTS



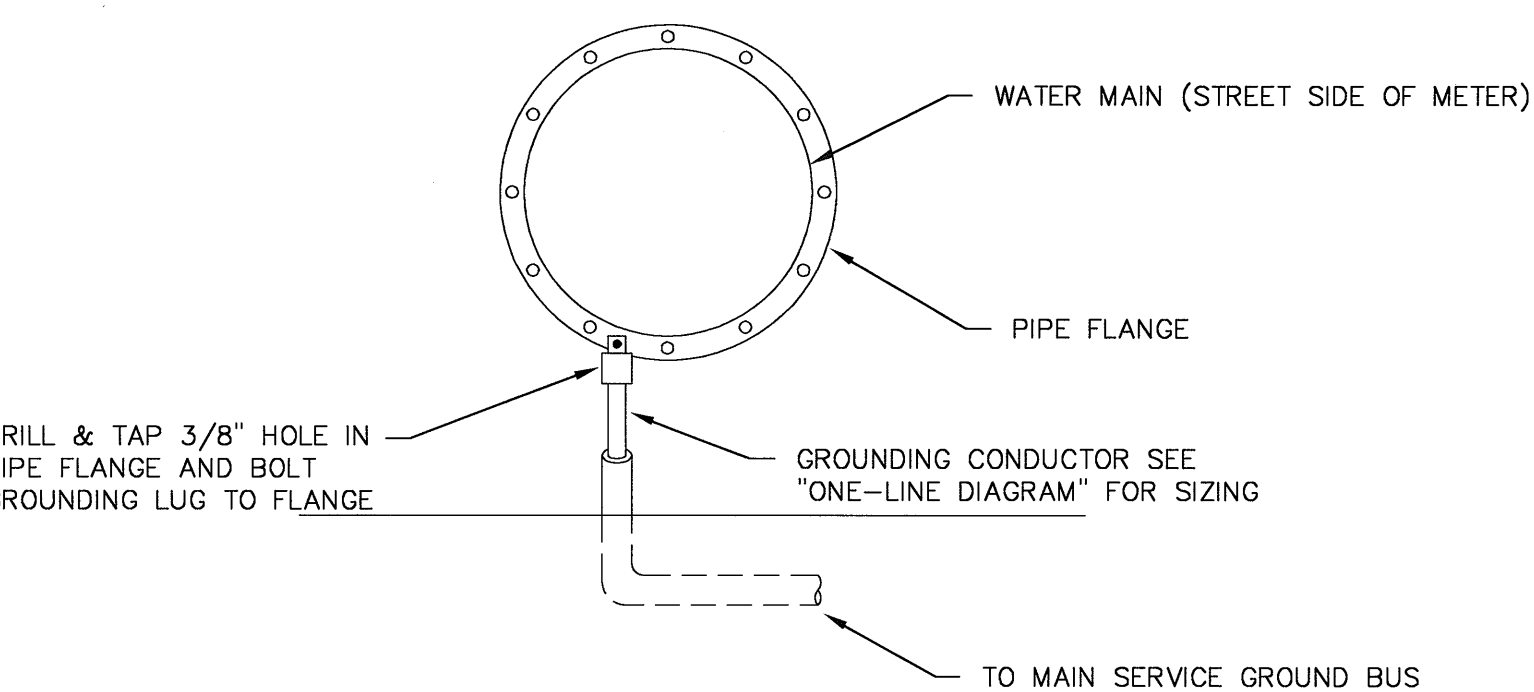
BUILDING STEEL GROUNDING DETAIL 4  
SCALE: NTS



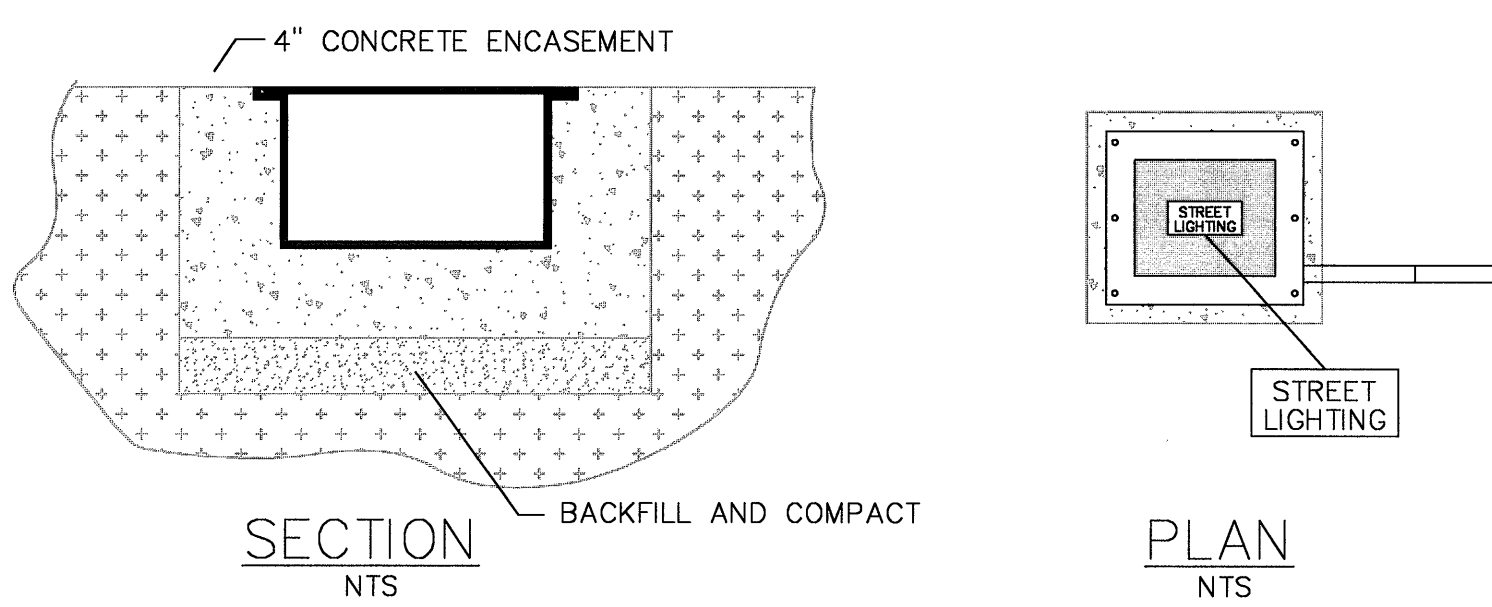
T-STAT STUB-UP DETAIL 2  
SCALE: NTS



MAIN SERVICE GROUNDING DETAIL 9  
SCALE: NTS



MAIN WATER GROUNDING DETAIL 7  
SCALE: NTS



SITE LIGHTING PULL BOX DETAIL 5  
SCALE: NTS

**KEYNOTES**

16.800 E.C. TO PROVIDE RECEPTACLE FOR DRAIN LINE HEATER TAPE AND TO INTERWIRE (2) FIELD INSTALLED ADDITIONAL LIGHTS. REFER TO FOODSERVICE EQUIPMENT PLANS FOR MORE INFORMATION.

16.820 INTERWIRE BETWEEN EXHAUST FAN AND SWITCH LOCATED IN KITCHEN. SEE KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION.

16.830 ELECTRICAL CONTRACTOR SHALL INSTALL (2) ADDITIONAL COOLER LIGHTS SUPPLIED BY THE KITCHEN EQUIPMENT CONTRACTOR.

16.840 REMOTE FIRE PULL. VERIFY EXACT LOCATION BETWEEN FIRE SUPPRESSION SYSTEM CONTRACTOR AND LOCAL CODES.

16.850 1" UNDERGROUND CONDUIT FOR POS SYSTEM. PROVIDE CONTROL CABLE FROM POS STATIONS TO OFFICE. COORDINATE EXACT REQUIREMENTS WITH OWNER.

16.860 PROVIDE CONDUIT AND WIRING AS REQUIRED TO INTERWIRE BETWEEN THE COIL AND THE CONDENSER.

16.870 PROVIDE CONDUIT AND WIRING AS REQUIRED TO INTERCONNECT FIRE SUPPRESSION SYSTEM TO SHUNT-TRIP CIRCUIT BREAKERS IN PANEL KTC1.

**GENERAL NOTES**

1. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION PLANS, SHOP DRAWINGS AND MANUFACTURERS INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION ON EXACT POWER, WIRING & ROUGH-IN REQUIREMENTS AND LOCATIONS OF DEVICES.

2. REFER TO FOODSERVICE EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.

3. VERIFY EXACT OUTLET REQUIREMENTS WITH KITCHEN EQUIPMENT CONTRACTOR PRIOR TO INSTALLATION.

4. COORDINATE LOCATIONS OF ELECTRICAL DEVICES WITH INFORMATION CONTAINED ON ARCHITECTURAL PLAN AND ELEVATION DRAWINGS.